

Anti-HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Monoclonal Antibody

Catalog Number: M01280

About HSPD1

Recognizes a 60kDa protein, identified as the heat shock protein 60 (hsp60). Its epitope is localized between aa 383-447 of human hsp60. A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (hsp s), more appropriately called as stress response proteins (srp s). hsp60 is a potential antigen in a number of autoimmune diseases. In human arthritis and in experimentally induced arthritis in animals, disease development coincides with the development of immune reactivity directed against not only bacterial hsp60, but also against its mammalian homolog.

Overview

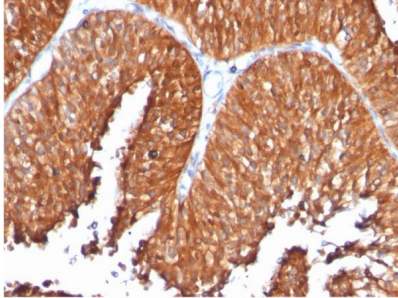
Product Name	Anti-HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Monoclonal Antibody
Reactive Species	Chicken, Cow, Dog, Drosophila, Hamster, Human, Monkey, Mouse, Pig, Rabbit, Rat, Sheep, Xenopus laevis
Description	Boster Bio Anti-HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Monoclonal Antibody (Catalog # M01280). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, Drosophila.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: SPM253
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P10809

Technical Details

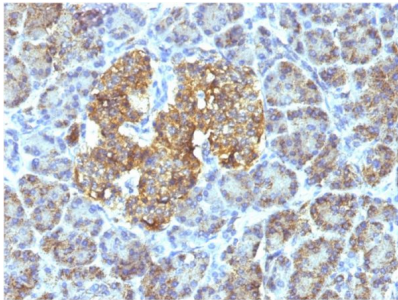
Immunogen	Recombinant human HSP60 protein
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

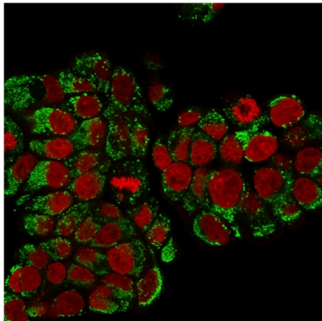
Anti-HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Monoclonal Antibody (M01280) Images



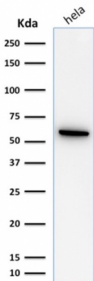
Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Anti-HSP60 Monoclonal Antibody (SPM253)



Formalin-fixed, paraffin-embedded human Pancreas stained with Anti-HSP60 Monoclonal Antibody (SPM253)



Immunofluorescence analysis of PFA-fixed MCF-7 cells. Anti-HSP60 Mouse Monoclonal Antibody (SPM253) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).



Western Blot analysis of HeLa cell lysate using Anti-HSP60 Mouse Monoclonal Antibody (SPM253).

3 Publications Citing This Product

1. PubMed ID: 24735884, Hepatic mitochondrial and ER stress induced by defective PPAR γ signaling in the pathogenesis of hepatic steatosis
2. PubMed ID: 27698781, Expression and location of HSP60 and HSP10 in the heart tissue of heat-stressed rats
3. PubMed ID: 22500017, Hager L, Li L, Pun H, Liu L, Hossain Ma, Maguire Gf, Naples M, Baker C, Magomedova L, Tam J, Adeli K, Cummins Cl,

Connelly Pw, Ng Ds. J Biol Chem. 2012 Jun 8;287(24):20755-68. Doi: 10.1074/Jbc.M112.340919. Epub 2012 Apr 12. Lecithin:Cholesterol Ac...

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